

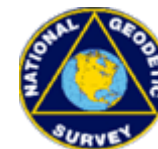
Fourth Annual CORS Users Forum

NOAA's National Geodetic Survey

44th CGSIC Meeting
Long Beach, CA
September 21, 2004



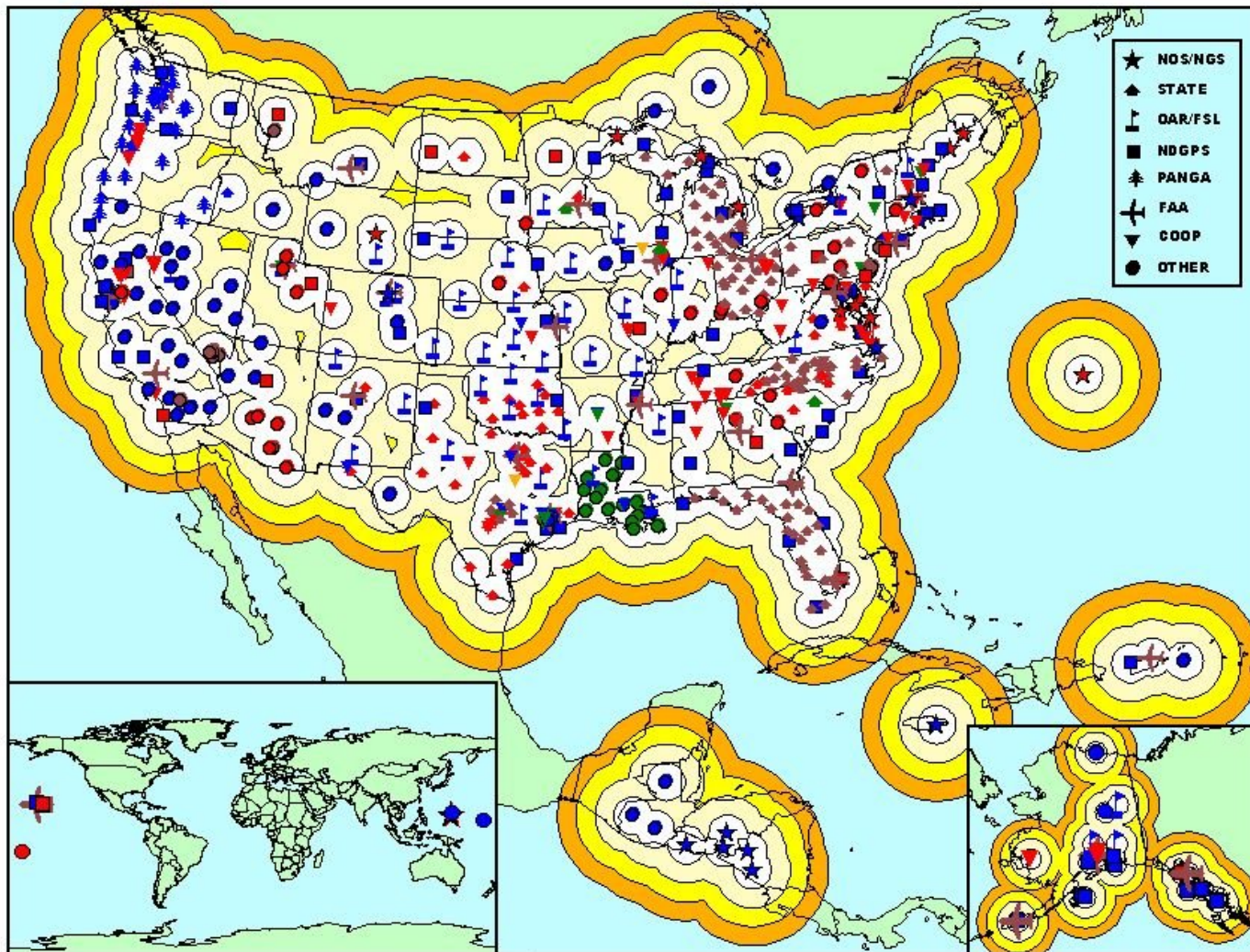
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National Ocean Service
National Geodetic Survey



Positioning America for the Future

Continuously Operating Reference Stations

CORS Coverage (100, 200, 300, and 400 km radius) June 2004



Symbol color denotes sampling rates: (1 second) (5 seconds) (15 seconds) (30 seconds)

Craig 6/9/2004

CORS OVERVIEW

- Network contains 850+ sites as of Sep. 2004
- Growing at rate of 8 sites per month
- More than 130 organizations participate in the CORS program
- Provides code range (C/A, P1, P2)
 - and carrier phase observations (L1, L2)
- Provides meteorological data at some sites



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CORS APPLICATIONS

- Postmission Static Positioning (cm-level accuracy with a few hours of data, dm-level accuracy with one minute of data)
- Postmission Kinematic Positioning (dm-level accuracy for an aircraft, a boat, or a land vehicle)
- Geophysics / Crustal Motion
- Meteorology / Water Vapor in Atmosphere
- Space Weather / Free Electrons in Ionosphere



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Agenda – Tuesday, Sep. 21

- 1:30 – 1:40 Welcome, Gordon Adams,
National Geodetic Survey
- 1:40 – 3:10 Panel Speakers
- 3:10 – 3:30 Question-and-Answer Session
- 3:30 – 3:45 Break
- 3:45 – 5:00 Small Discussion Groups



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Panel Speakers

- 1:40 – 2:00 **Greg Anderson**, University Navstar Consortium (UNAVCO)
The EarthScope Plate Boundary Observatory: An Update on Project Year 2
- 2:00 – 2:20 **John Ray**, Ohio Department of Transportation
Design, Construction and Implementation of a Statewide Real-Time Kinematic Network
- 2:20 – 2:40 **Roy Dokka**, Louisiana Spatial Reference Center
Technical, Operational, and Political Challenges of Building a Regional Multi-purpose CORS Network Along the Gulf Coast
- 2:40 – 3:00 **Richard Snay**, NOAA, National Geodetic Survey
CORS/OPUS: Status and Future Prospects.
- 3:00 – 3:10 **Dru Smith**, NOAA, National Geodetic Survey
Ionospheric Monitoring Using the NOAA CORS Network



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Small Discussion Groups

- **Towards Real-Time Positioning**
Miranda Chin and Marti Ikahara
- **Computer Friendly CORS (CFCORS)**
Gordon Adams and Janet Irwin
- **Online Positioning User Service (OPUS)**
Tom Soler and Rick Foote
- **Ionospheric and Tropospheric Modeling**
Dru Smith, Seth Gutman and Joe Kunches



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